

IN THE SPECIFICATION

Please replace the paragraph at page 19, prenumbered line 25, with the following rewritten paragraph:

$$\{\text{Formula-1}\} \ a(t) = 2C\dot{\varepsilon}(t)$$

Please replace the paragraph at page 20, prenumbered line 6, with the following rewritten paragraph:

$$\{\text{Formula-2}\} \ a_{in,1}(t) = 2C\dot{\varepsilon}_{in,1}(t)$$

Please replace the paragraph at page 20, prenumbered line 9, with the following rewritten paragraph:

$$\{\text{Formula-3}\} \ a_{in,2}(t) = 2C\dot{\varepsilon}_{in,2}(t)$$

Please replace the paragraph at page 20, prenumbered line 17, with the following rewritten paragraph:

$$\{\text{Formula-4}\} \ v_{in,1}(t) = 2C\varepsilon_{in,1}(t)$$

Please replace the paragraph at page 20, prenumbered line 20, with the following rewritten paragraph:

$$\{\text{Formula-5}\} \ v_{in,2}(t) = 2C\varepsilon_{in,2}(t)$$

Please replace the paragraph at page 21, prenumbered line 1, with the following rewritten paragraph:

$$\{\text{Formula-6}\} \ a_{in,L,1}(t) = \int_0^t v_{in,L,1}(\tau) d\tau$$

Please replace the paragraph at page 21, prenumbered line 4, with the following rewritten paragraph:

$$\text{[Formula 7]} \quad a_{in,L,2}(t) = \int_0^t v_{in,L,2}(\tau) d\tau$$

Please replace the paragraph at page 21, prenumbered line 7, with the following rewritten paragraph:

$$\text{[Formula 8]} \quad a_{in,L,1+2}(t) = \int_0^t v_{in,L,1+2}(\tau) d\tau$$

Please replace the paragraph at page 21, prenumbered line 17, with the following rewritten paragraph:

$$\text{[Formula 9]} \quad a_{in,L,1+2}(t) = a_{in,L,1}(t) + a_{in,L,2}(t)$$

Please replace the paragraph at page 21, prenumbered line 20, with the following rewritten paragraph:

$$\text{[Formula 10]} \quad a_{out,L,1+2}(t) = a_{out,L,1}(t) + a_{out,L,2}(t)$$

Please replace the paragraph at page 22, prenumbered line 3, with the following rewritten paragraph:

$$\text{[Formula 11]} \quad a_{out,L,1+2}(t) = a_{out,L,1}(t) + a_{out,L,2}(t - \Delta t)$$

Please replace the paragraph at page 23, prenumbered line 1, with the following rewritten paragraph:

$$\text{[Formula 12]} \quad 2C\dot{\varepsilon}_{L1,out,1+2}(t) = 2C\dot{\varepsilon}_{L1,out,1}(t) + 2C\dot{\varepsilon}_{L1,out,2}(t)$$

Please replace the paragraph at page 23, prenumbered line 4, with the following rewritten paragraph:

$$\text{[Formula 13]} \quad a_{L1,out,1+2}(t) = a_{L1,out,1}(t) + a_{L1,out,2}(t)$$

Please replace the paragraph at page 23, prenumbered line 12, with the following rewritten paragraph:

$$\text{[Formula 14]} \quad a_{L1,out,1+2}(t) = a_{L1,out,1}(t) + a_{L1,out,2}(t - \Delta t)$$

Please replace the paragraph at page 24, prenumbered line 6, with the following rewritten paragraph:

$$\text{[Formula 15]} \quad \varepsilon(z, t) = F(z, t)$$

Please replace the paragraph at page 24, prenumbered line 12, with the following rewritten paragraph:

$$\text{[Formula 16]} \quad F(z, t) = \varepsilon_i(t, z) - \varepsilon_i\left(t - \frac{2l_p}{C_p}, z\right)$$

Please replace the paragraph at page 24, prenumbered line 22, with the following rewritten paragraph:

$$\text{[Formula 17]} \quad \varepsilon_1(t, z) = \frac{V_1}{\pi C} \left[\int_0^\infty \frac{\sin(\alpha_1 \eta + \eta^3/3)}{\eta} d\eta + \int_0^\infty \frac{\sin(\alpha_2 \eta + \eta^3/3)}{\eta} d\eta \right]$$

Please replace the paragraph at page 25, prenumbered line 1, with the following rewritten paragraph:

$$\text{[Formula 18]} \quad \alpha_1 = \frac{Z - Ct}{\left[\frac{3}{16} v^2 D_a^2 Ct \right]^{\frac{1}{3}}}$$

Please replace the paragraph at page 25, prenumbered line 4, with the following rewritten paragraph:

$$\text{[Formula 19]} \quad \alpha_2 = \frac{-Z - Ct}{\left[\frac{3}{16} v^2 D_a^2 Ct \right]^{\frac{1}{3}}}$$

Please replace the paragraph at page 26, prenumbered line 1, with the following rewritten paragraph:

$$\text{[Formula 20]} \quad \varepsilon_n^e(t) = L^{-1} \left[L[\varepsilon_{Ln}(t)] \frac{L \left[F(L_1, t - \frac{(L_n - L_1)}{C}) \right]}{L[F(L_n, t)]} \right]$$

Please replace the paragraph at page 26, prenumbered line 8, with the following rewritten paragraph:

$$\text{[Formula 22]} \quad \varepsilon_r(L_1, t) = \frac{1}{N} \left[\varepsilon_{L_1}(L_1, t) + \sum_{n=2}^N \varepsilon_n^e(t) \right]$$

Please replace the paragraph at page 27, prenumbered line 4, with the following rewritten paragraph:

$$\text{[Formula 23]} \quad a_{in,1}^r(t) = 2C\dot{\varepsilon}_{r,1}(L_1, t - \frac{L-L_1}{C})$$

Please replace the paragraph at page 27, prenumbered line 7, with the following rewritten paragraph:

$$\text{[Formula 24]} \quad a_{in,2}^r(t) = 2C\dot{\varepsilon}_{r,2}(L_1, t - \frac{L-L_1}{C})$$

Please replace the paragraph at page 27, prenumbered line 10, with the following rewritten paragraph:

$$\text{[Formula 25]} \quad a_{in,1+2}^r(t) = 2C\dot{\varepsilon}_{r,1+2}(L_1, t - \frac{L-L_1}{C})$$

Please replace the paragraph at page 27, prenumbered line 20, with the following rewritten paragraph:

$$\text{[Formula 26]} \quad a_{in,1+2}^r(t) = a_{in,1}^r(t) + a_{in,2}^r(t)$$

Please replace the paragraph at page 27, prenumbered line 23, with the following rewritten paragraph:

[Formula 27] $a_{out,1+2}^r(t) = a_{out,1}^r(t) + a_{out,2}^r(t)$

Please replace the paragraph at page 28, prenumbered line 6, with the following rewritten paragraph:

[Formula 28] $a_{out,1+2}^r(t) = a_{out,1}^r(t) + a_{out,2}^r(t - \Delta t)$

Please replace the paragraph at page 29, prenumbered line 1, with the following rewritten paragraph:

[Formula 29] $\frac{L[\varepsilon_{in,1}(t)]}{L[\varepsilon_{in,1}(L_1, t)]} = \frac{L[\varepsilon_{in,2}(t)]}{L[\varepsilon_{in,2}(L_1, t)]} = \frac{L[\varepsilon_{in,1+2}(t)]}{L[\varepsilon_{in,1+2}(L_1, t)]} = \frac{L[F(L, t)]}{L[F(L_1, t)]}$

Please replace the paragraph at page 29, prenumbered line 15, with the following rewritten paragraph:

[Formula 30] $2C\dot{\varepsilon}_{in,1+2}(t) = 2C\dot{\varepsilon}_{in,1}(t) + 2C\dot{\varepsilon}_{in,2}(t)$

Please replace the paragraph at page 29, prenumbered line 18, with the following rewritten paragraph:

[Formula 31] $a_{out,1+2}(t) = a_{out,1}(t) + a_{out,2}(t)$

Please replace the paragraph at page 29, prenumbered line 26, with the following rewritten paragraph:

[Formula 32] $a_{out,1+2}(t) = a_{out,1}(t) + a_{out,2}(t - \Delta t)$

Please replace the paragraph at page 30, prenumbered line 16, with the following rewritten paragraph:

$$\text{[Formula 33]} \quad \frac{L[\varepsilon_{in,1}^{rc}(t)]}{L[\varepsilon_{r,1}(L_1, t)]} = \frac{L[\varepsilon_{in,2}^{rc}(t)]}{L[\varepsilon_{r,2}(L_1, t)]} = \frac{L[\varepsilon_{in,1+2}^{rc}(t)]}{L[\varepsilon_{r,1+2}(L_1, t)]} = \frac{L[F(L, t)]}{L[F(L_1, t)]}$$

Please replace the paragraph at page 30, prenumbered line 26, with the following rewritten paragraph:

$$\text{[Formula 34]} \quad 2C\dot{\varepsilon}_{in,1+2}^{rc}(t) = 2C\dot{\varepsilon}_{in,1}^{rc}(t) + 2C\dot{\varepsilon}_{in,2}^{rc}(t)$$

Please replace the paragraph at page 31, prenumbered line 1, with the following rewritten paragraph:

$$\text{[Formula 35]} \quad a_{out,1+2}^{rc}(t) = a_{out,1}^{rc}(t) + a_{out,2}^{rc}(t)$$

Please replace the paragraph at page 31, prenumbered line 9, with the following rewritten paragraph:

$$\text{[Formula 36]} \quad a_{out,1+2}^{rc}(t) = a_{out,1}^{rc}(t) + a_{out,2}^{rc}(t - \Delta t)$$

Please replace the paragraph at page 32, prenumbered line 9, with the following rewritten paragraph:

$$\text{[Formula 37]} \quad G_{CL}(j\omega) = \frac{L\left[\varepsilon_{L1,out}\left(t - \frac{L-L_1}{C}\right)\right]}{L[\varepsilon_{iL}(t)]}$$

Please replace the paragraph at page 32, prenumbered line 21, with the following rewritten paragraph:

~~[Formula 38]~~

Please replace the paragraph at page 33, prenumbered line 1, with the following rewritten paragraph:

~~[Formula 39]~~ $a_{out,1+2}^{CL1}(t) = a_{out,1}^{CL1}(t) + a_{out,2}^{CL1}(t)$

Please replace the paragraph at page 33, prenumbered line 9, with the following rewritten paragraph:

~~[Formula 40]~~ $a_{out,1+2}^{CL1}(t) = a_{out,1}^{CL1}(t) + a_{out,2}^{CL1}(t - \Delta t)$

Please replace the paragraph at page 34, prenumbered line 7, with the following rewritten paragraph:

~~[Formula 41]~~

Please replace the paragraph at page 34, prenumbered line 11, with the following rewritten paragraph:

~~[Formula 42]~~ $a_{out,1+2}^{CLN}(t) = a_{out,1}^{CLN}(t) + a_{out,2}^{CLN}(t)$

Please replace the paragraph at page 34, prenumbered line 19, with the following rewritten paragraph:

~~[Formula 42]~~ $a_{out,1+2}^{CLN}(t) = a_{out,1}^{CLN}(t) + a_{out,2}^{CLN}(t - \Delta t)$